



DuPont Haskell Global Centers  
for Health and Environmental Sciences  
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August 13, 2008

Via Federal Express

Document Processing Center (Mail Code 7407M)  
Room 6428  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency, ICC Building  
1201 Constitution Ave., NW  
Washington, DC 20004

**Re: 1, 3, 5-Triazin-2-amine, 4-dimethyl-amino-6-substituted- (PMN P-92-344)**

Dear 8(e) Coordinator:

The information provided in the Attachment to this letter is from a call report received by DuPont and from telephone calls pertaining to alleged exposure to the above-identified substance. Although the information in the Attachment has not been verified and it is not clear that the symptoms reported (recurring headache, swelling of tongue, lips, and throat) are due to exposure to the above-identified substance, DuPont is submitting the information to the TSCA §8(e) Office as a precautionary measure. The MSDS for the above-identified substance is enclosed with this letter.

The above-identified substance is subject to a TSCA §5(e) Consent Order for PMN P-92-344.

If additional information or clarification is needed, please contact me directly.

Sincerely,

A. Michael Kaplan, Ph.D.  
Director – Regulatory Affairs

AMK/AVM: clp  
(302) 366-5260



Attachment (1 page)  
Enclosure – MSDS (7 pages)



## Attachment

### 1, 3, 5-Triazin-2-amine, 4-dimethyl-amino-6-substituted- (PMN P-92-344)

The information presented below is from a call report and/or telephone calls from/with the Rocky Mountain Poison and Drug Center (RMPDC) and/or Chemtrec.

On June 23, 2008, DuPont was notified that 2 adult males (the 1<sup>st</sup> and 2<sup>nd</sup> patients) were taken to the emergency room for respiratory symptoms after alleged exposure to white powder, reported to be the above-identified substance, in a dumpster at a shipping site. It was further reported that a nurse with a medical history of bronchial issues (the 3<sup>rd</sup> patient) experienced minor respiratory symptoms when treating one of the patients. During an update with RMPDC the next day, DuPont was informed that none of the patients were admitted to the hospital and that the case was closed.

Upon investigation, DuPont learned that the 1<sup>st</sup> and 2<sup>nd</sup> patients were workers at the shipping site where the dumpster was located and that the dumpster contained 2 empty drums labeled with the substance identified above.<sup>1</sup> The 2<sup>nd</sup> patient indicated that the only powder in the dumpster was a little residue on the drums and the lid. The empty drums were removed from the dumpster and shipped to DuPont for proper handling.

RMPDC subsequently informed DuPont that the 1<sup>st</sup> patient again presented at the emergency room three days after exposure, complaining of headaches and other symptoms (nausea, dizzy, sweaty) similar to those that had developed 2 hours after initial exposure. He was diagnosed by the emergency room physician with "re-occurring reaction from exposure" and was discharged the same day. During that call, RMPDC reported it received further information indicating that the 1<sup>st</sup> patient had thrown trash into the dumpster and that white powder came out of the dumpster. The 1<sup>st</sup> patient reportedly inhaled the powder, got some of it on his hands and arms, and then looked through the dumpster to find the source of the white powder. The 2<sup>nd</sup> patient reportedly checked the dumpster after the 1<sup>st</sup> patient was exposed and had minor dermal exposure. No additional information as provided on the 3<sup>rd</sup> patient. A 4<sup>th</sup> patient was identified as a technician at the hospital who came in contact with the 1<sup>st</sup> and 2<sup>nd</sup> patients. All patients were treated and released the same day to either home or work. A toxicologist from RMPDC was consulted concerning symptoms from exposure to triazine herbicides. The toxicologist indicated that initial irritation to skin or the respiratory tract would be expected from the kind of exposure described.

RMPDC made a follow-up call to the 1<sup>st</sup> patient the day after his second emergency room visit. The 1<sup>st</sup> patient stated that his head hurts, he was dizzy, the back of his throat was spotted, and his nasal passages were raw. He stated that he went to the emergency room the night before, was treated with toradol, benadryl, and some orange liquid, was given prescriptions for ibuprofen, zyrtec, epi pen, and nasocort, and was sent home. He stated that "they think he had an allergic reaction to this".<sup>2</sup> He reported that he was given vicodin and he felt good thereafter. He reported that no lab work or any other evaluation was done. He stated that his symptoms had started to come back since he left the hospital the last time, that he was not given many vicodin, that his tongue hurts, his mouth hurts, the roof of his mouth feels like it is on fire, and that he would like more vicodin.

Two days later, RMPDC made another follow-up call to the 1<sup>st</sup> patient. He stated he was well for 2 days, but that he started having some return of symptoms (lips swollen, throat swelling, tongue swelling) and that he was on his way to the clinic.

The call report indicates that RMPDC made additional follow-up calls to the 1<sup>st</sup> patient, but that contact was not made.

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<sup>1</sup> The 2 drums had been emptied because the drums were damaged. The contents of the drums were repacked in different drums for shipping off-site.

<sup>2</sup> Note: It is not clear to what "this" refers.



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

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IN-D8526  
M0000694 Revised 1-AUG-2008  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

Grade : Technical

# Tradenames and Synonyms

DPX-D8526  
SUBSTITUTED DIAMINOTRIAZINE  
DPX-D8526 TECHNICAL GRADE  
D8526  
(3-Amino-5-(2,2,2-trifluoroethoxy)(2,4,6-triazinyl))-  
dimethylamine  
N,N-Dimethyl-6-(2,2,2-trifluoroethoxy)-1,3,5-triazine-  
2,4-diamine

Company Identification

MANUFACTURER/DISTRIBUTOR  
DuPont  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.  
302-774-1000)  
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.  
703-527-3887)  
Medical Emergency : 1-800-441-3637 (outside the U.S.  
302-774-1000)

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
IN-D8526	145963-84-4	>98
2-Amino-4-dimethylamino-6-(2,2,2-trifluoroethoxy)1,3,5-triazine		
T3009	32998-04-2	<1
UNKNOWN IMPURITIES		<1

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HAZARDS IDENTIFICATION  
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## # Emergency Overview

WARNING: Causes mild eye irritation. Avoid skin contact; avoid breathing the substance; avoid ingestion; use respiratory protection; use skin protection.

## # Potential Health Effects

Based upon animal data, IN-D8526 may be harmful if swallowed or inhaled; significant body weight effects were observed in animals administered repeated doses of this material.

IN-D8526 is similar in structure to other diaminotriazines which have produced mild eye irritation with tearing, pain or blurred vision.

This substance may cause: Central nervous system effects, internal organ effects, reproductive effects, developmental effects and cancer.

## Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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FIRST AID MEASURES  
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## First Aid

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a physician for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician for treatment advice.

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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FIRE FIGHTING MEASURES  
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## Extinguishing Media

Water Spray, Dry Chemical.

## Fire Fighting Instructions

Isolate area. Keep personnel removed and upwind of fire. Shut off source of fuel, if possible and without risk. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

If unable to extinguish fire, let burn until consumed. Cool tank/container with water spray. Runoff from fire control may be an environmental hazard. Prevent runoff from entering sewers and waterways.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel. Ventilate spill area. Wear self-contained breathing apparatus (SCBA) and full protective gear.

## Initial Containment

Do not allow to contaminate ground or surface water systems.

## # Spill Clean Up

Shovel or sweep up. Avoid raising dust. Place collected material into suitable containers for disposal.

Dispose of material following all applicable federal, state and local laws/restrictions. Note to users: Disposal restrictions apply.

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HANDLING AND STORAGE  
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## Handling (Personnel)

Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

## (HANDLING AND STORAGE - Continued)

This compound is subject to an EPA TSCA Section 5(e) consent order. Employees potentially exposed must be provided with information and training on this substance to comply with the consent order.

When using this substance avoid skin contact; avoid breathing the substance; avoid ingestion; use respiratory protection; use skin protection.

## Handling (Physical Aspects)

Avoid dust generation.

## Storage

Store in a well ventilated place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Storage of material in containers is subject to labeling described in the consent order.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation.

## Personal Protective Equipment

Protection in the workplace is subject to a Significant New Use Regulation (SNUR) and/or a consent order. Persons who are reasonably likely to be dermally exposed in the work area to this substance through direct handling of the substance or through contact with equipment on which the substance may exist are required to wear, personal protective equipment that provides a barrier to prevent dermal exposure to the substance in the specific work area where it is selected for use. Gloves, full body chemical protective clothing, chemical goggles or equivalent eye protection, and a NIOSH approved respirator are required as described in the SNUR and/or consent order for each person who is reasonably likely to be exposed in the work area.

## EYE/FACE PROTECTION (See 40 CFR 721.63)

Wear coverall chemical splash goggles or equivalent eye protection and face shield.

## RESPIRATORS (See 40 CFR 721.63)

This material does not have established exposure limits. Wear a NIOSH approved minimum category 19C type C supplied-air respirator operated in pressure demand or other positive pressure mode and equipped with a full face-piece.

## (EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

## PROTECTIVE CLOTHING (See 40 CFR 721.63)

Full body chemical protective clothing and gloves must be worn. Chemical protective clothing, including gloves must provide an impervious barrier to prevent dermal exposure. Protective clothing made from Tyvek will provide an impervious barrier for water wet or dried D8526. Butyl gloves are recommended.

## Exposure Guidelines

## Exposure Limits

IN-D8526

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: 1 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, total dust 0.5 mg/m <sup>3</sup> , 8 & 12 Hr. TWA, respirable dust

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Melting Point	: 133-135 C (271-275 F)
Odor	: Odorless
Form	: Solid
Color	: White
Vapor pressure	: Estimated <1 X 10 <sup>(-7)</sup> Pa at 20°C
Water Solubility	: >0.001 <0.002 g/L at ambient temperatures

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

Reacts with nucleophilic base.

## Incompatibility with Other Materials

None reasonably foreseeable.

## Decomposition

Decomposes by reaction with aqueous NaOH at high temperature.

## (STABILITY AND REACTIVITY - Continued)

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## # Animal Data

Oral LD50 : 656 mg/kg (rat; DuPont study)  
Xn, Harmful; R22, Harmful if swallowed  
Dermal LD50 : > 2000 mg/kg (rat)

5-Exposure Inhalation Study (male rat): NOAEL 10 mg/m3,  
based on transient body weight effects observed at  
100 mg/m3.

AMES Salmonella Mutagenicity Assay: Negative

IN-D8526 is a weak skin and weak eye irritant based on  
animal data.

Subchronic and reproductive toxicity tests on a related  
diaminotriazine indicated no reproductive toxicity and a  
NOAEL of 6.0 mg/kg bw for systemic effects.

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ECOLOGICAL INFORMATION  
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## # Ecotoxicological Information

## AQUATIC TOXICITY:

96-Hour LC50 - Fathead minnow: 139 mg/L  
96-Hour LC50 - Rainbow trout: 99 mg/L  
48-Hour EC50 - Daphnia magna: 324 mg/L

72-Hour EC50 - Algae (*Pseudokirchneriella subcapitatum*):  
130 mg/L

14-Day EC50 - Lemna gibba (Duckweed): 94.3 mg/L

21-Day NOEC - Daphnia magna: 1.56 mg/L (Chronic)

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DISPOSAL CONSIDERATIONS  
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## # Waste Disposal

NOTICE TO USERS: Disposal restrictions apply.

Release to water: restrictions apply as noted in the  
consent order.

Treatment, storage, transportation, and disposal must be in



## (DISPOSAL CONSIDERATIONS - Continued)

accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Do not dispose of this material by landfill. Incinerate material in accordance with Federal, State/Provincial and Local requirements.

## ENVIRONMENTAL HAZARDS:

This substance may be toxic to fish and aquatic organisms. Do not apply to wetlands or any body of water by cleaning equipment or disposal of waste.

## Container Disposal

Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

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TRANSPORTATION INFORMATION  
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## # Shipping Information

DOT: Not Regulated by 49 CFR (DOT)

IMO/IMDG: Not Regulated by IMO/IMDG

IATA: Not regulated by IATA

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OTHER INFORMATION  
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## Additional Information

Manufacturer: DuPont Shanghai (DUPAC)  
DuPont Agricultural Chemicals  
3055 Pu Dong Bei Lu  
Shanghai, China 200137

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection  
Address : Wilmington, DE 19898  
Telephone : 1-888-638-7668

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS